

S/N 09/765,063



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Tony Yaksh et al.	Examiner:	Baisakhi Roy
Serial No.:	09/765,063	Group Art Unit:	3737
Filed:	January 17, 2001	Docket:	1133.029US1
Title:	APPARATUS AND METHOD FOR DETECTING FLINCH RESPONSE TO NOCICEPTIVE AGENTS		

INFORMATION DISCLOSURE STATEMENT

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(c)(2), Applicants have included the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p). Please charge any additional fees or credit any overpayment to Deposit Account No. 19-0743.

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The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

TONY YAKSH ET AL.

By their Representatives,

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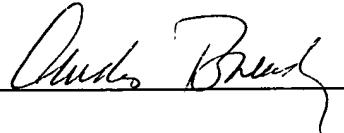
Date March 31, 2005 By 
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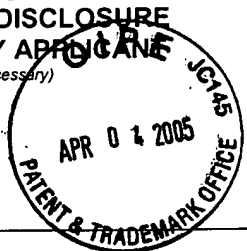
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Use as many sheets as necessary)



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Sheet 1 of 4

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OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		ABBADIE, C., et al., "Differential Contribution of the Two Phases of the Formalin Test to the Pattern of c-fos Expression in the Rat Spinal Code: Studies With Remifentanil and Lidocaine", <u>Pain</u> , 69, (1997),101-110	
		ABBOTT, F. V., et al., "The Formalin Test: Scoring Properties of the First and Second Phases of the Pain Response in Rats", <u>Pain</u> , 60, (1995),91-102	
		ABRAM, S. E., et al., "Morphine, but not Inhalation Anaesthesia, Blocks Post-Injury Facilitation. The Role of Preemptive Suppression of Afferent Transmission", <u>Anesthesiology</u> , 78(4), (1993),713-721	
		ABRAM, S. E., et al., "Systemic Lidocaine Blocks Nerve Injury-Induced Hyperalgesia and Nociceptor-Driven Spinal Sensitization in the Rat", <u>Anesthesiology</u> , 80(2), (1994),383-391	
		ALOISI, A. M., et al., "Behavioral Effects of Different Intensities of Formalin Pain in Rats", <u>Physiology & Behavior</u> , 58(3), (1995),603-610	
		BANNON, A. W., et al., "ABT-594 [(R)-5-(2-azetidinylmethoxy)-2-chloropyridine]: A Novel, Orally Effective Antinociceptive Agent Acting via Neuronal Nicotinic Acetylcholine Receptors: II. In Vivo Characterization", <u>The Journal of Pharmacology and Experimental Therapeutics</u> , 285(2), (1998),787-794	
		BHATNAGAR, S. , et al., "The Effects of Prior Chronic Stress on Cardiovascular Responses to Acute Restraint and Formalin Injection", <u>Brain Research</u> , 797, (1998),313-320	
		BRENNAN, T. J., "AMPA/Kainate Receptor Antagonists as Novel Analgesic Agents", <u>Anesthesiology</u> , 89(5), (1998),1049-1051	
		BUERKLE, H. , et al., "Effect of Continuous Spinal Remifentanil Infusion on Behaviour and Spinal Glutamate Release Evoked by Subcutaneous Formalin in the Rat", <u>British Journal of Anaesthesia</u> , 80, (1998),348-353	
		CHAPLAN, S. R., et al., "Efficacy of Spinal NMDA Receptor Antagonism in Formalin Hyperalgesia and Nerve Injury Evoked Allodynia in the Rat", <u>Journal of Pharmacology and Experimental Therapeutics</u> , 280(2), (1997),829-838	
		CLAVELOU, P. , et al., "The Orofacial Formalin Test in Rats: Effects of Different Formalin Concentrations", <u>Pain</u> , 62, (1995),295-301	
		CODERRE, T. J., et al., "The Formalin Test: A Validation of the Weighted-Scores Method of Behavioral Pain Rating", <u>Pain</u> , 54, (1993),43-50	
		DALLEL, R. , et al., "Evidence for a Peripheral Origin of the Tonic Nociceptive Response to Subcutaneous Formalin", <u>Pain</u> , 61, (1995),11-16	
		DICKENSON, A. H., et al., "Peripheral Origins and Central Modulation of Subcutaneous Formalin-Induced Activity of Rat Dorsal Horn Neurones", <u>Neuroscience Letters</u> , 83, (1987),207-211	
		DICKERSON, A. H., et al., "Chapter 36 Response Properties of Dorsal Horn Neurons: Pharmacology of the Dorsal Horn", In: <u>Anesthesia: Biologic Foundations</u> , Yaksh, T., et al., Editors, Lippincott-Raven Publishers,(1997),611-624	

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Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

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		DIRIG, D. M., et al., "Intrathecal Baclofen and Muscimol, but not Midazolam, are Antinociceptive Using the Rat-Formalin Model", <u>Journal of Pharmacology and Experimental Therapeutics</u> , 275(1), (1995),219-227	
		DRAY, A. , et al., "Systemic Capsaicin and Olvanil Reduce the Acute Algogenic and the Late Inflammatory Phase Following Formalin Injection into Rodent Paw", <u>Pain</u> , 47, (1991),79-83	
		DUBUISSON, D. , et al., "The Formalin Test: A Quantitative Study of the Analgesic Effects of Morphine, Meperidine, and Brain Stem Stimulation in Rats and Cats", <u>Pain</u> , 4, (1977),161-174	
		HANDWERKER, H. O., "Electrophysiological Mechanisms in Inflammatory Pain", <u>Agents and Actions. Supplements</u> , 32 - Drugs in Inflammation, (1991),91-99	
		HUNTER, J. C., et al., "Role of Excitatory Amino Acid Receptors in the Mediation of the Nociceptive Response to Formalin in the Rat", <u>Neurosci Lett</u> , 174, (1994),217-221	
		JETT, M. F., et al., "The Formalin Test in Rat: Validation of an Automated System", <u>Pain</u> , 64, (1996),19-25	
		JOURDAN, D. , et al., "A New Automated Method of Pain Scoring in the Formalin Test in Rats", <u>Pain</u> , 71, (1997),267-270	
		MALMBERG, A. B., et al., "Antinociceptive Actions of Spinal Nonsteroidal Anti-Inflammatory Agents on the Formalin Test in the Rat", <u>The Journal of Pharmacology and Experimental Therapeutics</u> , 263(1), (1992),136-146	
		MALMBERG, A. B., et al., "Antinociceptive Effect of Spinally Delivered Prostaglandin E Receptor Antagonists in the Formalin Test on the Rat", <u>Neuroscience Letters</u> , 173, (1994),193-196	
		MALMBERG, A. B., et al., "Effect of Continuous Intrathecal Infusion of ω -conopeptides, N-type Calcium-Channel Blockers, on Behavior and Antinociception in the Formalin and Hot-Plate Tests in Rats", <u>Pain</u> , 60, (1995),83-90	
		MALMBERG, A. B., et al., "Pharmacology of the Spinal Action of Ketorolac, Morphine, ST-91, U50588H, and L-PIA on the Formalin Test and an Isobolographic Analysis of the NSAID Interaction", <u>Anesthesiology</u> , 79(2), (1993),270-281	
		MALMBERG, A. B., et al., "Spinal Nitric Oxide Synthesis Inhibition Blocks NMDA-Induced Thermal Hyperalgesia and Produces Antinociception in the Formalin Test in Rats", <u>Pain</u> , 54, (1993),291-300	
		NOZAKI-TAGUCHI, N. , et al., "A Novel Model of Primary and Secondary Hyperalgesia After Mild Thermal Injury in the Rat", <u>Neuroscience Letters</u> , 254, (1998),25-28	

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		PETERSON, M. A., et al., "The Differential Contribution of Capsaicin-Sensitive Afferents to Behavioral and Cardiovascular Measures of Brief and Persistent Nociception and to Fos Expression in the Formalin Test", <u>Brain Research</u> , 755(1), (1997),9-16	
		PRADO, W. A., et al., "Antinociceptive Effect of Intrathecal Neostigmine Evaluated in Rats by Two Different Pain Models", <u>Brazilian Journal of Medical and Biological Research</u> , 30, (1987),1225-1231	
		PRICE, D. D., "Psychophysical Observations on Patients With Neuropathic Pain Relieved by a Sympathetic Block", <u>Pain</u> , 36, (1989),273-288	
		PUIG, S. , et al., "Formalin-Evoked Activity in identified Primary Afferent Fibers: Systemic Lidocaine Suppresses Phase-2 Activity", <u>Pain</u> , 64, (1995),345-355	
		RABOISSON, P. , et al., "Effects of Subcutaneous Formalin on the Activity of Trigeminal Brain Stem Nociceptive Neurones in the Rat", <u>Journal of Neurophysiology</u> , 73(2), (1995),496-505	
		SHIMOYAMA, N. , et al., "Spinal Gabapentin is Antinociceptive in the Rat Formalin Test", <u>Neuroscience Letters</u> , 222(1), (1997),65-67	
		SIMMONS, R. M., et al., "Kainate GluR5 Receptor Subtype Mediates the Nociceptive Response to Formalin in the Rat", <u>Neuropharmacology</u> , 37, (1998),25-36	
		SINGH, L. , et al., "The Antiepileptic Agent Gabapentin (Neurontin) Possesses Anxiolytic-Like and Antinociceptive Actions that are Reversed by D-Serine", <u>Psychopharmacology</u> , 127, (1996),1-9	
		TALLARIDA, R. J., et al., <u>Manual of Pharmacologic Calculations With Computer Programs</u> , (2nd Edition, 1987, Springer-Verlag New York, Inc.),Pg. 291	
		TAYLOR, B. K., et al., "Early Nociceptive Events Influence the Temporal Profile, but not the Magnitude, of the Tonic Response to Subcutaneous Formalin: Effects with Remifentanyl", <u>The Journal of Pharmacology and Experimental Therapeutics</u> , (1997),876-883	
		TAYLOR, B. K., et al., "Persistent Cardiovascular and Behavioral Nociceptive Responses to Subcutaneous Formalin Require Peripheral Nerve Input", <u>The Journal of Neuroscience</u> , 15(11), (1995),7575-7584	
		TAYLOR, B. K., et al., "Pituitary-Adrenocortical Responses to Persistent Noxious Stimuli in the Awake Rat: Endogenous Corticosterone Does Not Reduce Nociception in the Formalin Test", <u>Endocrinology</u> , 139(5), (1998),2407-2413	
		TJØLSEN, A. , et al., "The Formalin Test: An Evaluation of the Method", <u>Pain</u> , 51, (1992),5-17	
		WHEELER-ACETO, H., et al., "Standardization of the Rat Paw Formalin Test for the Evaluation of Analgesics", <u>Psychopharmacology</u> , 104, (1991),35-44	
		WHEELER-ACETO, H. , et al., "The Rat Paw Formalin Test: Comparison of Noxious Agents", <u>Pain</u> , 40, (1990),229-238	

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		WOOLF, C. J., et al., "Long Term Alterations in the Excitability of the Flexion Reflex Produced by Peripheral Tissue Injury in the Chronic Decerebrate Rat", <u>Pain</u> , 18, (1984),325-343	
		YAKSH, T. L., et al., "Central Pharmacology of Nociceptive Transmissions", In: <u>Textbook of Pain</u> , (4th Edition, Churchill Livingstone),(1999),253-308	
		YAKSH, T. L., "Chapter 40 Preclinical Models of Nociception", In: <u>Anesthesia: Biologic Foundations (Vol. 1)</u> , Yaksh, T. , et al., Editors, Lippincott-Raven Publishers,(1997),685-718	
		YAKSH, T. L., "Chronic Catheterization of the Spinal Subarachnoid Space", <u>Physiology & Behavior</u> , 17, (1976),1031-1036	
		YAKSH, T. L., et al., "Intrathecal Capsaicin Depletes Substance P in the Rat Spinal Cord and Produces Prolonged Thermal Analgesia", <u>Science</u> , 206(4417), (1979),481-483	
		YAKSH, T. L., et al., "The Spinal Biology in Humans and Animals of Pain States Generated by Persistent Small Afferent Input", <u>Pro. Natl. Acad. Sci. USA</u> , 96, (1999),7680-7686	
		YAMAMOTO, T. , et al., "Stereospecific Effects of a Nonpeptidic NK1 Selective Antagonist, CP-96,345: Antinociception in the Absence of Motor Dysfunction", <u>Life Sciences</u> , 49(26), (1991),1955-1963	
		YOON, M. H., et al., "The Effect of Intrathecal Gabapentin on Pain Behavior and Hemodynamics on the Formalin Test in the Rat", <u>Anesthesia and Analgesia</u> , 89, (1999),434-439	
		ZAR, J. H., "Table of Contents", <u>Biostatistical Analysis</u> , (2nd Edition, 1984, Prentice Hall, Inc.),134-138	

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